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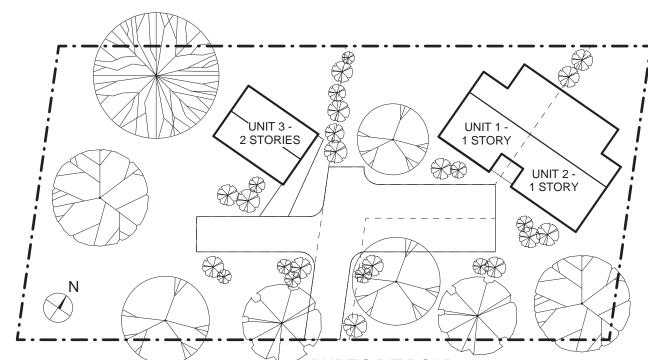
FORM / SCALE / PERCEPTION

Shift Homes are driven by simplicity. Their forms emerge from small strategic moves that respond to climate, site and the inhabitants. The burden of excess is eliminated by smaller, smarter, more space efficient design, reducing environmental impact and making room to interact with our environments in rejuvenating ways. Living small is the most sustainable way to live. The homes are built from natural, non-toxic, non-petroleum based components, making them more healthy and beautiful. These Homes help shift the mentality towards small living, which goes hand in hand with energy efficiency and sustainability.

Burt's Pit Road, and Florence are characterized by smaller, modest homes. With a mix of styles from the single story Cape, the deck houses, to the Craftsman, and some modern and contemporary. Shift Homes take on classic forms, but are detailed and clad in a contemporary, minimalist style.

DESIGNING FOR HABITAT FOR HUMANITY

Pioneer Valley Habitat for Humanity's mission of opportunity, inclusiveness and innovation is an inspiration for the movement of small living. Good sustainable design is not out of reach, and must be available to all. Shift Homes are designed with Habitat's approach in mind. The Design is accessible and easily replicated but still flexible, so it can stay contextual to its location and fitting to its user. It implements many money-saving design strategies to make the homes as affordable as possible, while still making a Net-Positive energy building. Details and building methods are kept simple and straightforward so homes can be constructed with the help of unskilled or low-skilled volunteer labor. Implementing Passive House strategies helps keep the homeowners warm and healthy with reduced mechanical systems, making the buildings and inhabitants more independent.



MONEY-SAVING **DESIGN STRATEGIES**

• Simple forms Rectangular forms without special features and a single gable roof are easier, faster and cheaper to build, but also • Cellulose insulation perform better.

 Keeping it small Smart layouts and space efficiency minimize circulation and maximize the • Vaulted ceiling with loft us to build smaller and save

on costs. Advanced framing Faster build, uses less wood and allows for more insulation in the wall. Windows can also be sized to fit exactly between 24" o.c. studs, to reduce framing

 Standard components Sizing the building to be built with standard sized building components and using standard size windows and

 Centralized utilities Running less plumbing piping

and ventilation air ducts saves time and money.

Most affordable and sustainable insulation option, and can be blown-in by the

most lived-in spaces, allowing Extra usable space above that requires little extra work.

 Recycled materials Recycled wood, siding, flooring, finishes and more can be used to save money. • Building up Saving on the cost of the

building two stories. • No basement or garage Building only the necessary

foundation and roof by

 Energy efficiency Building a well performing house saves money for the regular operating cost, and keeps systems small and affordable.



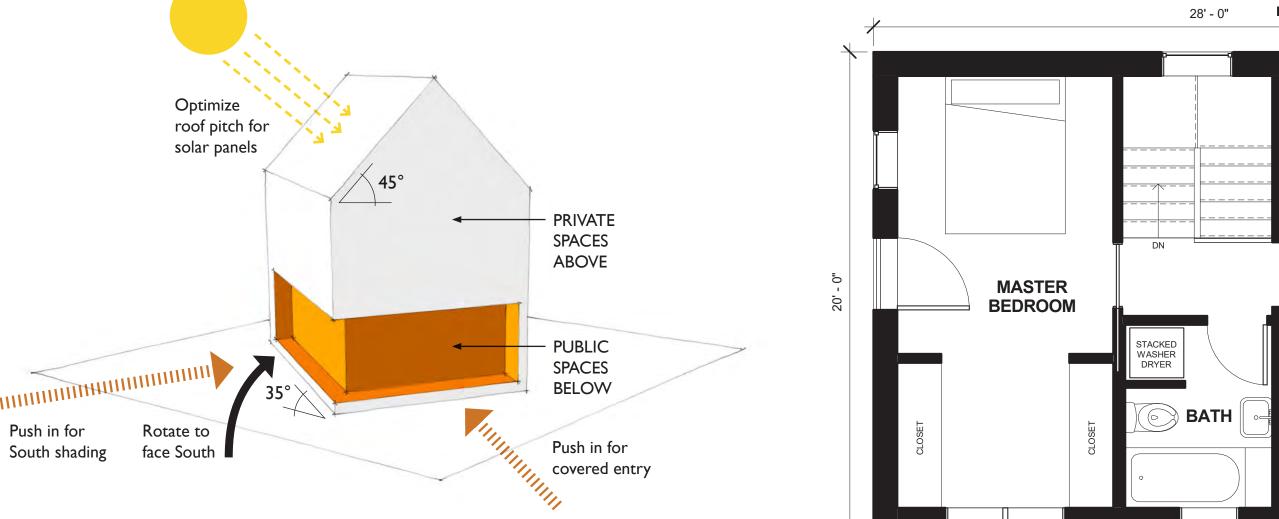
SOUTH **UNIT 3 EXTERIOR ELEVATIONS** 1/8" = 1'-0"

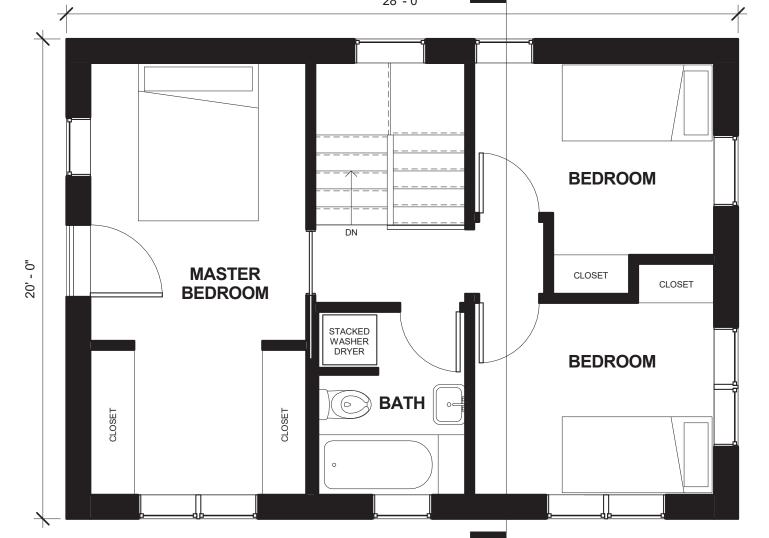


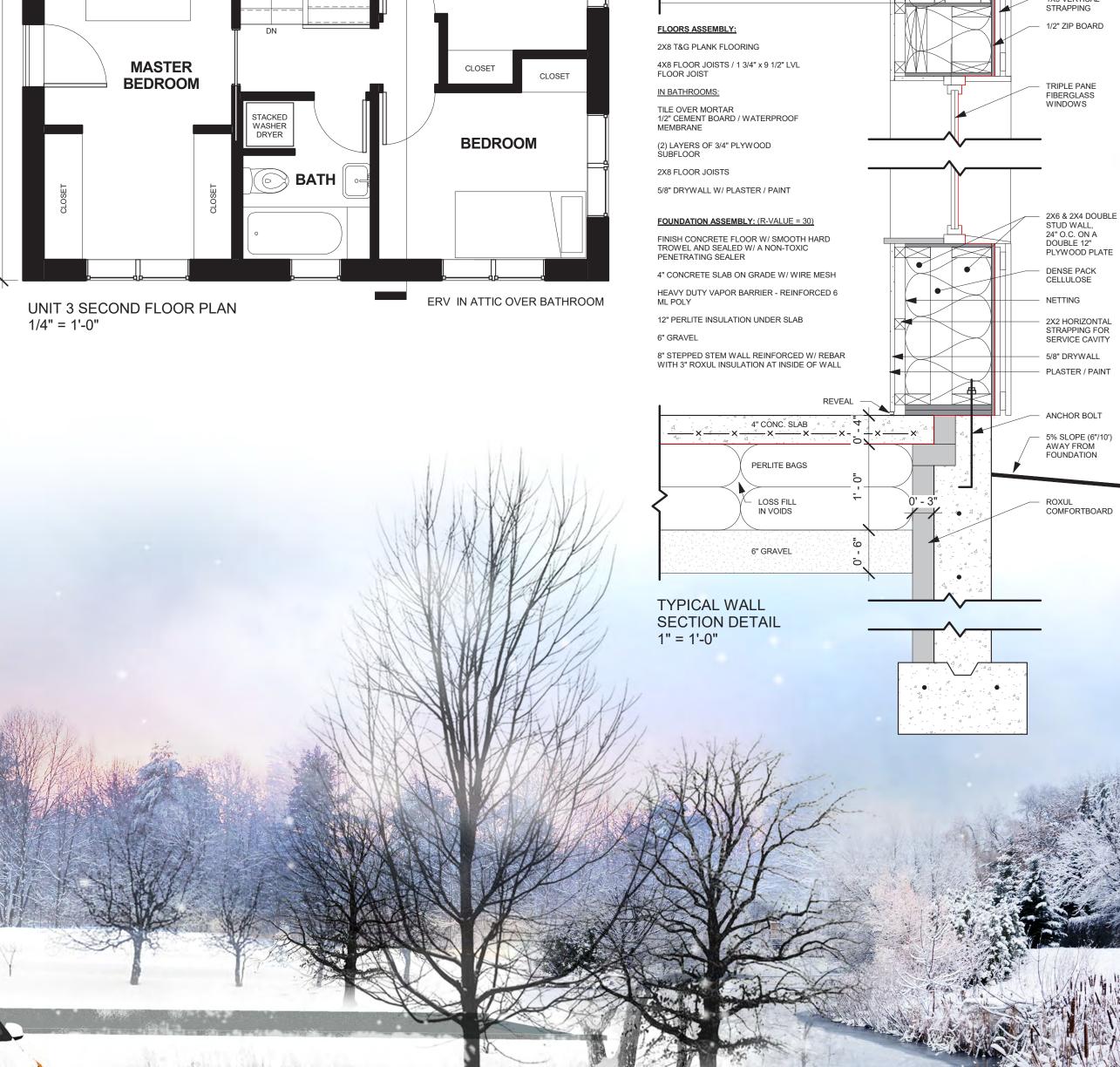
UNIT 3 BUILDING SECTION 1/8" = 1'-0"



UNIT 3 FIRST FLOOR PLAN 1/4" = 1'-0"







INTELLO PLUS ——

ROOF ASSEMBLY: (R-VALUE = 76)

ASPHALT SHINGLES / STANDING SEAM

5/8" ZIP SHEATHING, TAPED AT SEAMS AND

20" ENGINEERED PARALLEL CORD ROOF TRUSS, FILLED W/ DENSE PACK CELLULOSE

INTELLO PLUS - VAPOR RETARDER

5/8" DRYWALL W/ PLASTER / PAINT

WALL ASSEMBLY: (R-VALUE = 46)

PINE HORIZONTAL SIDING

1X12 PINE SHIPLAP VERTICAL SIDING / 1X4

1X3 HORIZONTAL STRAPPING, 16 O.C. 1X3 VERTICAL STRAPPING, 24 O.C.

1/2" ZIP SHEATHING, TAPED AT SEAMS

2X6 (OUT) & 2X4 (IN) DOUBLE STUD WALL, 24" O.C. ON A 12" PLYWOOD PLATE FILLED W/ DENSE PACK CELLULOSE

2X2 HORIZONTAL STRAPPING FOR

5/8" DRYWALL W/ PLASTER / PAINT

2X8 / 4X8 FLOOR JOIST

1X3 HORIZONTAL

MEMBRANE, TAPED AT SEAMS

1X3 STRAPPING

1 3/4" x 9 1/2" LVL FLOOR JOIST



By implementing these design strategies, cost can be lowered to \$150 per SF.

CONSTRUCTION COST	UNIT 1: (700 SF)	UNIT 2: (830 SF)	UNIT 3: (1000 SF)
Site work, excavation, water, sewer	\$9,000	\$11,000	\$15,000
Foundation, footings, insulation	\$10,000	\$12,000	\$10,000
Rough framing, trusses, sheathing	\$18,000	\$23,000	\$27,000
Insulation and air sealing	\$5,000	\$6,000	\$8,000
Roofing, siding	\$6,000	\$8,000	\$10,000
Windows, exterior doors	\$7,000	\$8,000	\$15,000
Electrical, plumbing	\$12,000	\$14,000	\$18,000
ERV, Solar hot water, Heat pump	\$8,000	\$8,000	\$10,000
Drywall, priming, paint	\$6,000	\$8,000	\$10,000
Finishes, Interior doors, lighting	\$10,000	\$12,000	\$14,000
Bathroom, kitchen	\$9,000	\$10,000	\$12,000
TOTALS:	\$100,000	\$120,000	\$150,000

